Bruhat Bangalore Mahanagara Palike

Executive Engineer Yelahanka Division

Construction Of Compound Wall and Flogging concrete to DWCC near Allalasandra lake In Ward No-05 Of Yelahanka Satellite Town Sub Division.

									Estimate Cost	30.00 Lakhs
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount	
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work Depth exceeding 1.5m, but not exceeding 3 m. (Tipper 5.5 m3) (V-I.No 1.4.2,Page No-5 PWD SR 2021-22)									
	Basic Rate	199.00								
	Loading And Unloading	118.00								
	Sub Total	317.00								
	Area Weightage 10%	31.70								
	Total Rate	**348.70**								
	DWCC									
	Compound Wall									
	SSM Foundation									
		1	50.00	0.80	0.80	32.00				
	For Columns	10	0.45	0.80	0.80	2.88				
	For Deduction For Columns	-10	0.45	0.80	0.80	-2.88				
	Debris	6	9.10	6.00	0.90	294.84				
						326.84	**Cum**	**348.70**	**113969.11**	
2	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22)Issue Rate On 07-07-2022									
	Basic rate	**5554.00**								
	Area Weightage 10%	**555.40**								
	Total	**6109.40**								
		Cum								
	DWCC									
	Compound Wall									
	SSM Foundation									
		1	345.00	0.80	0.15	41.40				
	For Columns	69	0.45	0.80	0.15	3.73				
	For Deduction For Columns	-67	0.45	0.80	0.15	-3.62				
	CC Road									

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	DWCC	1	15.50	14.50	0.15	33.71			
	Cross Rd-1	1	120.00	5.00	0.15	90.00			
						165.22	**Cum**	**6109.40**	**1009398.12**
3	Providing **Size Stone masonry** with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (V-II, No-5.4, P.No-9 of PWD SR 2021-22)								
	Basic rate	**5422.00**							
	Area Weightage 10%	**542.2**							
	Total	**5964.20**							
	DWCC								
	1st Step								
	Compound Wall								
	SSM Foundation								
		1	50.00	0.60	0.60	18.00			
	For Columns	10	0.45	0.60	0.60	1.62			
	For Deduction For Columns	-10	0.45	0.60	0.60	-1.62			
	2nd Step								
	Compound Wall								
	SSM Foundation								
		1	50.00	0.45	0.40	9.00			
	For Columns	10	0.45	0.45	0.40	0.81			
	For Deduction For Columns	-10	0.45	0.45	0.40	-0.81			
						27.00	**Cum**	**5964.20**	**161033.40**
4	Supplying, **Fitting and Placing un-coated TMT bar** Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22) Issue Rate On 07-07-22								
	Basic Rate	**92170.00**							
	Area Weightage 10%	**9217.00**							
	Total Rate	**101387.00**							
	For Plinth Concrete , 120kg/Sqm	1	2.25	120.00		270.00			
						0.27	**Tn**	**101387.00**	**27,374.49**
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M25 Design Mix Using 20 mm nominal size** graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.3 of PWD SR 2021-22) Issue Rate On 07-07-22								
	Basic Rate	**5992.00**							
	5% for Centring	**299.60**							
	Sub Total	**6291.60**							
	Area Weightage 10%	**629.16**							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Total Rate	**6920.76**							
	DWCC								
	Plinth For Compound Wall								
		1	50.00	0.45	0.10	2.25			
						2.25	**Cum**	**6920.76**	**15,571.71**
6	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) **Mix 1:3:6 (M10) Using 20 mm** nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.4 of PWD SR 2021-22) Issue Rate On 07-07-22								
	Basic Rate	**5728.00**							
	Area Weightage 10%	**572.80**							
	Total Rate	**6300.80**							
	DWCC								
	Compound Wall								
	Coping Concrete								
		1	50.00	0.45	0.10	2.25			
	For Columns	10	0.45	0.45	0.10	0.20			
	For Deduction For Columns	-10	0.45	0.45	0.10	-0.20			
						2.25	**Cum**	**6300.80**	**14,176.80**
7	Providing **Flush/ Ruled pointing: Pointing on stone work** with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.(V-II, No-8.19.1, P.No-44 of PWD SR 2021-22) Issue Rate On 07-07-22								
	Basic rate	**199.00**							
	Area Weightage 10%	**19.90**							
	Total	**218.90**							
		Sqm							
	DWCC								
	Compound Wall								
		1	50.00		1.00	50.00			
	For Columns	10	0.45		1.00	4.50			
	For Deduction For Columns	-10	0.45		1.00	-4.50			
						50.00	**Sqm**	**218.90**	**10,945.00**
8	Providing and constructing load bearing wall with **Solid Concrete blocks** of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (V-2, No-6.33, P.No-17 of PWD SR 2021-22).Issue Rate On 07-07-22								
	Basic rate	**1061.00**							
	Area Weightage 10%	**106.10**							
	Total	**1167.10**							
	DWCC								

Sl	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Compound Wall								
		1	50.00		1.80	90.00			
	For Columns	20	0.45		1.80	16.20			
						106.20	**Sqm**	**1167.10**	**123946.02**
9	Providing **18 mm cement plaster** in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster with cement mortar 1:6 (1 cement : 6 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.(V-2, No-8.8, P.No-42 of PWD SR 2021-22). Issue Rate On 07-07-22								
	Basic rate	**307.00**							
	Area Weightage 10%	**30.70**							
	Total	**337.70**							
	DWCC								
	Compound Wall								
	Coping Concrete								
		2	50.00		1.80	180.00			
	For Columns	20	0.45		1.80	16.20			
						196.20	**Sqm**	**337.70**	**66,256.74**
10	Providing **White washing** with lime to give an even shade :New work (three coats) with lime of approved quality, including cost of materials, labour complete as per specifications and as per directions of Engineerin- charge.(V-2, No-8.21, P.No-44 of PWD SR 2021-22).								
	Basic rate	**19.00**							
	Area Weightage 10%	**1.90**							
	Total	**20.90**							
	DWCC								
	Compound Wall								
		2	50.00		1.80	180.00			
	For Columns	20	0.45		1.80	16.20			
						196.20	**Sqm**	**20.90**	**4,100.58**
11	Finishing walls with **water proofing cement paint** of required shade :New work (Two coats applied @ 4.84 kg/10 m²) to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(V-2, No-8.28, P.No-45 of PWD SR 2021-22).								
	Basic rate	**66.00**							
	Area Weightage 10%	**6.60**							
	Total	**72.60**							
	DWCC								
	Compound Wall								
		2	50.00		1.80	180.00			
	For Columns	20	0.45		1.80	16.20			
						196.20	**Sqm**	**72.60**	**14,244.12**

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
12	Earth work in surface **excavation by mechanical means** for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work ((V-I, P.No-8, I No-1.12 of PWD SR 2021-22)								
	Basic Rate	**65.00**							
	Area Weightage 10%	**6.50**							
	Total Rate	**71.50**							
	CC Road								
	DWCC	1	15.50	14.50	0.25	56.19			
	Cross Rd-1	1	120.00	5.00	0.30	180.00			
						236.19	**Cum**	**71.50**	**16,887.41**
13	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 **M30 (Grade)**, coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.(V-III, P.No-138,I No-20.29, KPWD SR 2021-22).(Issue rate on 07-07-22)								
	Basic Rate	**6512.00**							
	Area Weightage 10%	**651.20**							
	Total Rate	**7163.20**							
	CC Road								
	DWCC	1	15.50	14.50	0.15	33.71			
	Cross Rd-1	1	120.00	5.00	0.15	90.00			
						123.71	**Cum**	**7163.20**	**886177.38**
14	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (V-III Page No.3, Item No.1.4 A of PWD SR 2021-22)								
	Basic Rate	**12.00**							
	8KM Lead = 12*8	96.00							
	Area Weightage 10%	9.60							
	Total Rate	**105.60**				418.36			
	Qty frm Item No-1		326.8	1.28		302.32			
	Qty frm Item No-12		236.2	1.28		**720.68**	**t.Km**	**105.60**	**76,103.30**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
								Total Construction Cost	2540184.18
								18% GST for Construction Cost	457233.15
								Sub Total	2997417.33
								Utility Shifting,Miscellaneous and Rounding off	2,582.67
								GRAND TOTAL	3000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2021-2022, Data rates and issue rates dated 07-04-2022

Assistant Engineer
Ward No-05
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Satellite Town Sub Division.
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Administrative Approval
Accorded For ..30.00Lakhs
Head of A/C..P.3726
CER NO :....88..... Dt: 27/8/22

CE (TP&E)

Technical Sanction
Accorded For ..30.00Lakhs
Head of A/C....P.3726....
CER NO :....91..... Dt: 27/8/22